



\$ 2827

PTO/SB/21 (03-03)

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TRANSMITTAL FORM <small>(to be used for all correspondence after initial filing)</small>	Application Number	09/720,953	
	Filing Date	February 13, 2001	
	First Named Inventor	Tsukada et al.	
	Art Unit	2827	
	Examiner Name	Jeremy C. Norris	
Total Number of Pages in This Submission	12	Attorney Docket Number	232.001

ENCLOSURES (Check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form	<input checked="" type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to a Technology Center (TC)
<input checked="" type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input checked="" type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
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<input type="checkbox"/> Response to Missing Parts/Incomplete Application	Remarks	
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual	Mathew E. Corr Boyle Fredrickson Newholm Stein & Gratz, S.C.
Signature	<i>Mathew E. Corr</i>
Date	June 4, 2003

CERTIFICATE OF TRANSMISSION/MAILING	
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on this date: <u>June 4, 2003</u>	
Typed or printed	Lisa J. Ehaney
Signature	<i>Lisa J. Ehaney</i>
Date	6-4-03

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

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FEE TRANSMITTAL

for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

	Applicant Claims small entity status. See 37 CFR 1.27
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TOTAL AMOUNT OF PAYMENT	(\$) 110.00
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Complete if Known	
Application Number	09/720,953
Filing Date	February 13, 2001
First Named Inventor	Tsukada et al.
Examiner Name	Jeremy C. Norris
Group Art Unit	2827
Attorney Docket No.	232.001

METHOD OF PAYMENT *(check all that apply)*

☒ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None

☐ Deposit Account

Deposit Account Number **50-1170**

Deposit Account Name **Boyle Fredrickson Newholm Stein & Gratz S.C.**

The Commissioner is authorized to: *(check all that apply)*

☐ Charge fee(s) indicated below ☒ Credit any overpayments

☒ Charge any additional fee(s) during the pendency of this application

☐ Charge fee(s) indicated below, **except for the filing fee**

to the above-identified deposit account.


FEE CALCULATION					
1. BASIC FILING FEE					
Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
101	750	201	375	Utility filing fee	
106	330	206	165	Design filing fee	
107	520	207	260	Plant filing fee	
108	750	208	375	Reissue filing fee	
114	160	214	80	Provisional filing fee	
SUBTOTAL (1)				(\$)	

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE				
		Extra Claims	Fee from below	Fee Paid
Total Claims	<input type="text"/>	-20**= <input type="text"/>	X <input type="text"/>	<input type="text"/>
Independent Claims	<input type="text"/>	-3**= <input type="text"/>	X <input type="text"/>	<input type="text"/>
Multiple Dependent				<input type="text"/>
Large Entity	Small Entity			
Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description
103	18	203	9	Claims in excess of 20
102	84	202	42	Independent claims in excess of 3
104	280	204	140	Multiple dependent claim, if not paid
109	84	209	42	**Reissue independent claims over original patent
110	18	210	9	**Reissue claims in excess of 20 and over original patent
SUBTOTAL (2)				(\$) <input type="text"/>

** or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)					
3. ADDITIONAL FEES					
Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
105	130	205	65	Surcharge - late filing fee or oath	
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for <i>ex parte</i> reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	110.00
116	410	216	205	Extension for reply within second month	
117	930	217	465	Extension for reply within third month	
118	1,450	218	725	Extension for reply within fourth month	
128	1,970	228	985	Extension for reply within fifth month	
119	320	219	160	Notice of Appeal	
120	320	220	160	Filing a brief in support of an appeal	
121	280	221	140	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1,300	241	650	Petition to revive - unintentional	
142	1,300	242	650	Utility issue fee (or reissue)	
143	470	243	235	Design issue fee	
144	630	244	315	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	50	123	50	Processing fee under 37 CFR 1.17(q)	
126	180	126	180	Submission of Information Disclosure Stmt	
581	40	581	40	Recording each patent assignment per property (times number of properties)	
146	750	246	375	Filing a submission after final rejection (37 CFR § 1.129(a))	
149	750	249	375	For each additional invention to be examined (37 CFR § 1.129(b))	
179	750	279	375	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	
Other fee (specify)					
SUBTOTAL (3)					(\$) 110.00

*Reduced by Basic Filing Fee Paid

SUBMITTED BY				Complete (if applicable)	
Name (Print/Type)	Mathew E. Corr	Registration No. (Attorney/Agent)	45,434	Telephone	(414) 225-9755
Signature				Date	6/4/03

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors: Kiyotaka Tsukada et al. Art Unit: 2827
Serial No. 09/720,953 Examiner: Jeremy C. Norris
Filed: February 13, 2001
For: *Printed Circuit Board and Method of Manufacturing the Same*
Attorney Docket: 232.001 Confirmation No.: 9007

LETTER TO THE OFFICIAL DRAFTSPERSON

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Applicants submit herewith one sheet of formal drawings in which the label "Prior Art" has been added to Figs. 4(a), 4(b) and 4(x) as proposed in the drawing corrections filed with a Preliminary Amendment on January 3, 2001. These corrections were indicated as being approved by the Examiner in the *Office Action Summary*, Part of Paper No. 12, mailed February 13, 2003.

Respectfully submitted,

Mathew E. Corr
Registration No. 45,434

Date: *June 4, 2003*

BOYLE FREDRICKSON NEWHOLM
STEIN & GRATZ S.C.
250 Plaza, Suite 1030
250 East Wisconsin Avenue
Milwaukee, WI 53202
Telephone: (414) 225-9755
Facsimile: (414) 225-9753



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